

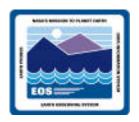
Request Partitioning Michael Burnett

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14 June 1996

706-CD-005-001 Day 2 Book MTB1-1

Request Partitioning Purpose



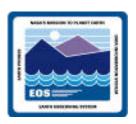
- Sequencing of granules within a request
- Minimizing delay in request fulfillment
- Prevent resource flooding

Design Topics Addressed

- CDR RID #6
 - Location of product request handling (e.g. segmentation in the system)

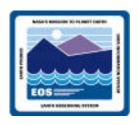
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Request Partitioning Component Roles



- Client
 - Declares sequencing of granules
 - Supports re-sorting results sets
 - Uses SDSRV Client Request object to establish domain
- SDSRV
 - Ensures files are available
 - Virtual Products
 - On-Demand Production
 - Resource control at thread/active request level
- DDIST
 - Control for large volume requests
 - # files
 - # media volumes (disk space for network resources)

Request Partitioning SDSRV Support



Support of availability

- ESDT granules are aware of file availability
- Time estimates for file availability
- "Holding" request for unavailable granules

Configuration

- DAAC configurable parameter for maximum wait
 - PLS provided for ODPR
 - Metadata for virtual (future) granules

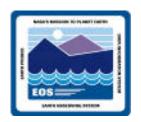
Operations GUI

GUI for partitioning actions

Support of sequencing

• Sequencing preserved, when granules available

Request Partitioning Operations Control



Send & Hold

- Partition Request
- Send Ready to DDIST
- Create Subscription for remainder of granules
- Update Order Tracking

Send & Drop

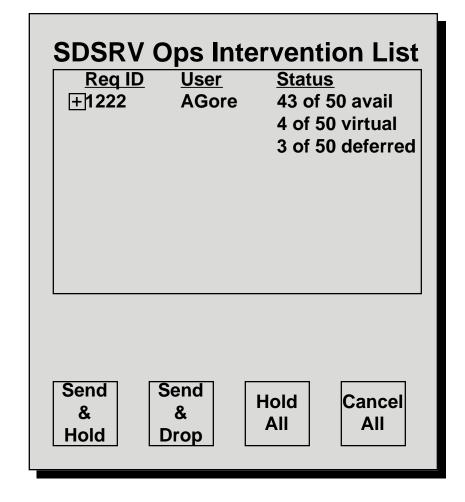
- Partition Request
- Send Ready to DDIST
- Remainder not distributed
- Update Order Tracking

Hold All

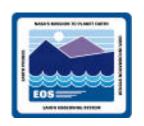
Wait until all granules are ready

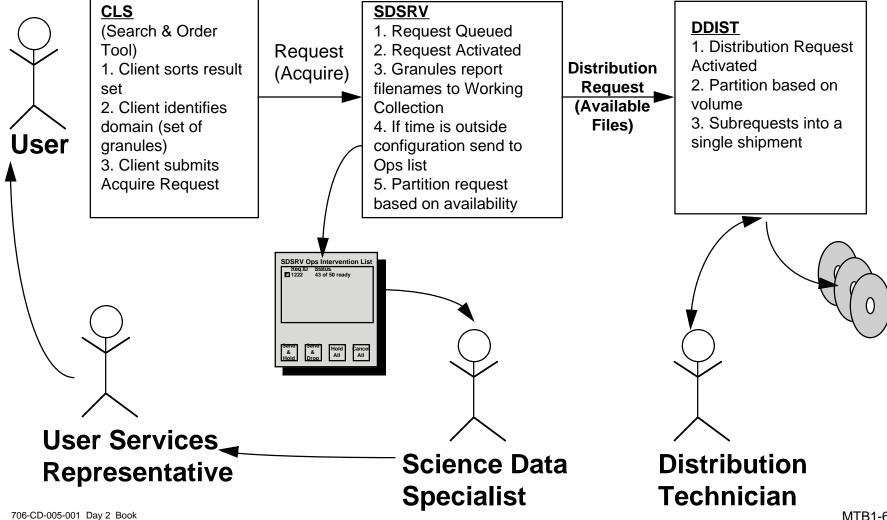
Send & Hold

Cancel entire request



Request Partitioning **Scenario Activity**





MTB1-6

